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Effect of perforated concave delta winglet vortex generators on heat transfer augmentation of fluid flow inside a rectangular channel: An experimental study


(Conference Paper) (Open Access)

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Abstract

Compact heat exchanger with gas as a heat exchange medium is widely used in power plants, automotive, air conditioning, and others. However, the gas has a low thermal conductivity resulting in high thermal resistance causing a low rate of heat transfer. Therefore an improvement to the convection heat transfer coefficient is necessary. One way to enhance the convection heat transfer coefficient is to use a longitudinal vortex generator. However, the increase in convection heat transfer coefficient is followed by an increase in pressure drop. Therefore, this work aims to improve the convection heat transfer coefficient with a low pressure drop. To achieve this goal, experiments were carried out by perforating a longitudinal vortex generator with a diameter of 5 mm with variations in holes number one, two and three. Two types of longitudinal vortex generators are compared. The experimental results show that the convection heat transfer coefficient for the case of perforated concave delta winglet vortex generator is only decreased by 1% from that without a hole, while the pressure drop is decreased by 11.6%. © The Authors, published by EDP Sciences, 2018.

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Tribological advancement – strategies and effects towards emissions and global energy consumption

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Abstract. This paper investigates the importance of tribology towards the global economy. The current world energy crisis, the depletion of fossil fuel reserves and the increasing of environmental hazards over the years have urged academicians and scientists to continuously seek for methods to overcome these problems while improving the quality of life in the same time. Energy saving can be achieved through the implementation of tribological improvements in various sectors such as transportation, manufacturing, power generation and residential sectors. The friction reductions eventually lead to wear reduction, energy loss reduction and CO₂ emission reduction due to the lesser energy consumption. Therefore, it can be concluded that advanced tribological technologies benefits the entire world in the economical aspect through energy saving and emission reductions.

1 Introduction

The ever-growing human population, rapid industrialization, modernization and development has increased the demand for energy. It is estimated the total world energy consumption will be increased by 33.5% from 2010 to 2030 [1]. The earth has been changing for many years until now it is still changing because of modern lifestyle of human. The average temperature of the Earth's surface has increased by about 0.85°C in the last 100 years. 2016 became the hottest year on record. Researchers believe that emissions which comprises of greenhouse gases released from industries and agricultural activities are the main cause of greenhouse effect, the way the Earth's atmosphere traps some of the energy from the Sun. Human activities such as the burning of fossil fuels in various sectors are increasing the amount of carbon dioxide (CO₂), the main greenhouse gas responsible for global warming. Carbon-absorbing forests are also being cut down for development and modernization purposes. The concentration of CO₂ in the atmosphere is now higher than at any time in the last 800,000 years. 2016 marked five consecutive years of CO₂ increases of at least two parts per million [2].

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**INTERNATIONAL MECHANICAL & INDUSTRIAL ENGINEERING CONFERENCE
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WELCOMING ADDRESS

Chairman of International Mechanical and Industrial Engineering Conference, IMIEC 2018

Distinguished guests, respected colleagues, and ladies and gentlemen,

It is the time successfully to wrap up a year's work. Considering just how busy you all must be, thank you very much for taking your precious time to participate in the **International Mechanical and Industrial Engineering Conference, IMIEC 2018**.

In particular, I would like to extend my gratitude to distinguished keynote speakers from abroad. First of all, please allow me to express my sincere appreciation for coming to our city for:

1. **Prof. Dr. Ir. Masjuki bin Hj Hassan., from Department of Mechanical Engineering, University of Malaya, Malaysia**
2. **Prof. Ir. I Nyoman Pujawan, M.Eng, Ph.D, From Department of Industrial Engineering, Sepuluh November Institute of Technology, Surabaya**
3. **Prof. Akio Miyara, from Department of Mechanical Engineering, Saga University, Japan**
4. **Prof. Prakasit Sokrai, from Department of Industrial Engineering, Pranakhon Rajabhat University, Thailand.**

And also our invited speakers and presenters from all over the world,

5. **SM Shahrul Nizan Shikh Zahari PhD, DIC, MRSC, Industrial Chemical Technology Programme, Faculty of Science & Technology, Universiti Sains Islam Malaysia**
6. **Assoc. Prof. Andrzej Katunin, from Institute of Fundamentals of Machinery Design, Faculty of Mechanical Engineering, Silesian University of Technology, Poland.**

I welcome all of you and hope that this event will serve as a catalyst for strengthening national and international cooperation on the share of all coverage mechanical engineering and industrial engineering.

This conference is being held in a series of events **64th Anniversary of State University Malang and 53rd Anniversary of Engineering Faculty**.

In addition, I am most thankful for the ceaseless efforts of all committee members of IMIEC consortia, all organizers, all cooperating institution as well as the sponsors that support us.

In this opportunity, I would like to report related to scientific of IMIEC 2018. The committee has received up to 200 manuscripts from 7 countries and more than 15 institutions. From 200 manuscript, the committee has decided to accept 122 papers that will published in MATEC International Proceeding indexed by SCOPUS. There are 7 topics consist of 4 topics from Mechanical Engineering and 3 topics from Industrial Engineering.

For your information, IMIEC 2018 is bianual event that continuing the previous event at 2016 which is IMEEEC 2016. We hope that we can continue to bring this tremendous event on IMIEC 2019.



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Paper Submission Deadline

~~25 May 2018~~ 25 June 2018 (Extended)

Announcement of Paper Acceptance

5 July 2018

Early Bird

25 May – 10 July 2018

Late Registration

11 July – 25 August 2018

Conference Date

30-31 August 2018

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After the first edition has successfully held in 2016, The 2nd International Mechanical and Industrial Engineering Conference (IMIEC) 2018 will be proudly represented on August 2018. As the biannual International Program organized by Mechanical Engineering Department of Universitas Negeri Malang (UM).

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